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Subject: Response to the office action by Examiner Michael P. Nghiem dated November 19, 2009

Ref: PCT/CA2005/001537: System and Method of Parallel Loadflow Computation for Electrical Power System (US application no. 10/594715)

Dear Sir/Madam,

Enclosed please find:

1. Amended copy of description, abstract, and all figures in 14-pages of my application no. PCT/CA2005/0015372 that entered into USA national phase with US application no. 10/594715 (46-pages). This amendment is being provided in response to the office action dated November 19, 2009 by examiner Michael P. Nghiem.
2. This response letter and amended claims (9-pages). In order to rewrite claims 28-36 as new, all pending claims 19-27 are cancelled, which are listed as:

Claims 1-18: previously cancelled

Claims 19-27: Cancelled

Claims 28-36: New

3. A marked-up in red ink copy of the description, abstract (16-pages), and amended Fig. 5, Fig. 6 and Fig. 7 (2-pages with contents on both sides), and marked-up in red ink copy of the new claims marking the implementation of the suggestions made by the examiner (3-pages with contents on both sides).

SUBMISSIONS

These amendments have been made in order to respond to the examiner's several objections. I am grateful for the examiner's patience in examining my application and subsequent

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amendments. I have tried diligently to amend description, claims, and Figures of my application to more fully and clearly address the examiner's particular objections. In this regard, I have had note of certain US patents including US Patent No. 4,868,410 in the name of Nakamura as well as US Patent No. 5081591 in the name of Hanway.

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Specification

Substitute specification is provided where all terms "loadflow calculation" changed to "loadflow computation" and "slack/reference" changed to "reference/slack" in order to have consistent terms through out in specification, claims, and figures. Marked-up in red ink copy of the immediate prior version of the specification of record is also provided to indicate amendments made.

It is possible that square-root symbol was missing by mistake in para [062] in each of the relations (35) to (39) in immediate prior version of the specification of record. In case it was, it is corrected in the substitute specification.

Paragraph [065] in immediate prior version of the specification of record is deleted, and paragraphs [065], [066] and [067] are added new in the amended specification. In report dated November 19, 2009 examiner suggested to remove words "I think" from paragraph [075], but words "I think" appeared only in para [065] in immediate prior version of the specification, and which has been deleted along with the words "I think" in the amended specification.

Drawings

All drawings are redrawn as required by 37 CFR 1.84(P)(3). All figures are redrawn with increased size of letters and numbers that appear on them. Only figures Fig. 1a, Fig. 1b, Fig. 3a, and Fig. 3b are now each on two pages increasing total pages for all the seven figures to 14 against 10-pages of immediate prior version of record. Therefore, all 14-sheets of 7-figures are replacement sheets for the 10-sheets of 7-figures of immediate prior version of record.

In amended Fig. 5 and Fig. 6 only word "calculation" is changed to word "computation", and some descriptive words are added in Fig. 7, possibly that may resolve objections under 37 CFR 1.83(a).

Drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention. Therefore, the means for defining and solving: the invented parallel computer architecture is shown in Fig.4. However, it is believed that all other items listed in the examination report under the heading of **Drawings** are not invented, but they are well known hardware components of a power network. The listed not invented but known components of a power network are, machine control means, excitation elements, rotation machines, transformer tap position control means (e.g. claim 22), slack/reference generator, rotating machine (e.g. claim 23), transformer (e.g. claim 24), machine control means, transformer tap

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changing element (e.g. claim 25). Therefore, it is respectfully believed that drawings need not show standard well-known and not invented hardware components of a power network. Therefore, possibly **they were not shown in drawings of cited US Patent No. 5081591 in the name of Hanway and yet the features were retained in claims.**

Claim Objections & Claim Rejections – 35 USC-112:

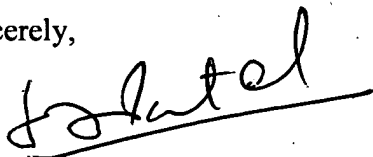
Claims are completely rewritten by canceling all prior pending claims 19-27, and listing new claims from 28-36. The new claims incorporate various suggestions by the examiner under Claim Objections, and Claim Rejections – 35 USC-112. A marked-up in red ink copy is also provided that indicates amendments made as per suggestions by the examiner.

This is respectfully submitted, and I hope it will meet the requirement at USPTO leading to the grant of a patent.

Please note that I have prepared this response to the office action dated November 19, 2009 on my own without taking services of patent attorney due to restricted funds and recently lost survival job as security guard. However, if it is required services of the patent attorney will be hired to prepare response when really needed.

The amended description with added new paragraphs [065], [066], and [067] provide additional supportive description for the pending claim-21 (new claim-30). Also, Fig. 4 is amended to include missing component of Input/Output unit. Further, **I, sureshchandra B. Patel, hereby state that this new substitute description, abstract, redrawn figures, and amended claims filed herewith and substitute specification including 7-figures in 10-pages filed on June 30, 2008 contained no new matter other than that contained in as filed application PCT/CA2005/001537 and other prior art matters.**

Sincerely,



Suresh Patel

Enclosures: This response letter (3-pages) + Amended claims (6-pages) + Marked up in red ink copy of amended claims that shows incorporation of examiner's suggestions (3-pages with content on both sides) + Redrawn 7-figures (14-pages) + Marked-up in red ink copy of ~~amended Fig. 5, Fig. 6 and Fig. 7 (2-page, content on both sides)~~ ^{all figures} ~~Fig. 10 - 18 - 9 pages~~ + Amended description and abstract (32-pages) + Marked-up in red ink copy of the immediate prior version of description, abstract (16-pages with content on both sides)= total ~~76~~ ⁸⁴ pages.

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